

ABSTRACT

5           An ion detector for a mass spectrometer is  
disclosed comprising one or more microchannel plates and  
an anode arranged to receive electrons emitted from the  
one or more microchannel plates. The anode preferably  
has a smaller diameter than the microchannel plates and  
10 is preferably arranged at a distance of at least 15 mm  
from the microchannel plates. One or more focusing  
lenses may be provided intermediate the microchannel  
plates and the anode. The anode preferably comprises  
two portions separated by an electrically insulated  
15 layer.